

GenCore version 5.1.6  
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OM nucleic - protein search, using frame\_plus\_n2p model

Run on: February 1, 2005, 13:18:03 ; Search time 28.5 Seconds  
(without alignments)  
2694.605 Million cell updates/sec

Title: US-10-659-782A-11

Perfect score: 1030

Sequence: 1 actctggatgggtgctgttt.....tggcagcgaggaggtgggg 579

Scoring table:

BLOSUM62  
Xgapop 10.0 , Xgapext 0.5  
Ygapop 10.0 , Ygapext 0.5  
Fgapop 6.0 , Fgapext 7.0  
Delop 6.0 , Delext 7.0

Searched: 478139 seqs, 66318000 residues

Total number of hits satisfying chosen parameters: 956278

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Command line parameters:

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-Q=/cgn2\_1/USPTO spoal\_p/US10659782/runat\_01022005\_130353\_14282/app\_query.fasta\_1.775  
-DB=Issued Patents AA -QFMT=fastan -SUFFIX=ra1 -MINMATCH=0.1 -LOOPCL=0  
-LOOPEXT=0 -UNITS=bits -START=1 -END=-1 -MATRIX=blosum62 -TRANS=human40.cdi  
-LIST=45 -DOCALLIGN=200 -THR SCORE=ptc -THR MAX=100 -THR MIN=0 -ALIGN=15  
-MODE=LOCAL -OUTFMT=ptc -NORM=ext -HEAPSIZE=500 -MINLEN=0 -MAXLEN=2000000000  
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-NO MMAP -LARGEQUERY -NEG SCORES=0 -WAIT -DSPBLOCK=100 -LONGLOG  
-DEV TIMEOUT=120 -WARN TIMEOUT=30 -THREADS=1 -XGAPOP=10 -XGAPEXT=0.5 -FGAPOP=6  
-FGAPEXT=7 -YGAPOP=10 -YGAPEXT=0.5 -DELOP=6 -DELEXT=7

Database :

Issued Patents AA:  
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2: /cgn2\_6/prodata/1/iaa/5B\_COMB.pep:\*  
3: /cgn2\_6/prodata/1/iaa/6A\_COMB.pep:\*  
4: /cgn2\_6/prodata/1/iaa/6B\_COMB.pep:\*  
5: /cgn2\_6/prodata/1/iaa/6C\_COMB.pep:\*  
6: /cgn2\_6/prodata/1/iaa/backfiles1.pep:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	326	31.7	117	3	US-09-046-479-2
2	326	31.7	117	3	US-08-822-897C-2
3	326	31.7	117	4	US-09-608-810A-4
4	326	31.7	117	4	US-09-404-417A-2
5	326	31.7	117	4	US-10-140-002-442
6	117	11.0	181	4	US-09-252-991A-26538
7	110.5	10.4	159	4	US-09-252-991A-30696
8	110.5	10.7	550	4	US-09-616-289-47
9	109.5	10.6	355	3	US-08-483-533-41
10	109.5	10.6	355	3	US-09-283-471A-41
11	109.5	10.6	355	5	PCT-US91-06532-3
12	108	10.1	174	4	US-09-252-991A-19399
					Sequence 2, Appli
					Sequence 2, Appli
					Sequence 4, Appli
					Sequence 2, Appli
					Sequence 442, App
					Sequence 26538, A
					Sequence 30696, A
					Sequence 47, Appl
					Sequence 41, Appl
					Sequence 41, Appl
					Sequence 3, Appli
					Sequence 19399, A

13	107.5	10.4	428	4	US-09-252-991A-24452	Sequence 24452, A
14	105	9.8	164	4	US-09-252-991A-20615	Sequence 20615, A
15	105	10.2	409	4	US-09-252-991A-17910	Sequence 17910, A
16	105	9.8	491	4	US-09-489-039A-7836	Sequence 7836, Ap
17	103.5	10.0	366	4	US-09-252-991A-17018	Sequence 17018, A
18	103.5	9.7	427	4	US-09-252-991A-17391	Sequence 17391, A
19	103	9.7	164	4	US-09-252-991A-30154	Sequence 30154, A
20	103	9.7	201	4	US-09-252-991A-19786	Sequence 19786, A
21	103	9.7	355	3	US-08-483-533-41	Sequence 41, Appl
22	103	9.7	355	3	US-09-283-471A-41	Sequence 3, Appli
23	103	9.7	355	5	PCT-US91-06532-3	Sequence 43, Appl
24	103	10.0	538	4	US-09-616-289-43	Sequence 1481, A
25	102.5	9.6	206	4	US-09-252-991A-31481	Sequence 31481, A
26	102.5	10.0	299	4	US-09-252-991A-22335	Sequence 22335, A
27	102	9.9	505	4	US-09-252-991A-18964	Sequence 18964, A
28	101.5	9.5	249	4	US-09-252-991A-32877	Sequence 32877, A
29	101.5	9.5	348	4	US-09-252-991A-19087	Sequence 19087, A
30	101.5	9.9	418	4	US-09-252-991A-32633	Sequence 32633, A
31	101.5	9.5	1142	4	US-09-252-991A-18234	Sequence 18234, A
32	101.5	9.5	1593	3	US-08-628-829-4	Sequence 4, Appli
33	101	9.5	215	4	US-09-252-991A-28157	Sequence 28157, A
34	100.5	9.4	162	4	US-09-252-991A-32485	Sequence 32485, A
35	100.5	9.4	1044	4	US-09-252-991A-18853	Sequence 18853, A
36	99.5	9.7	152	4	US-09-252-991A-31484	Sequence 31484, A
37	99	9.3	1150	4	US-09-252-991A-24671	Sequence 24671, A
38	98.5	9.2	217	4	US-09-252-991A-19862	Sequence 19862, A
39	98.5	9.2	257	4	US-09-252-991A-31869	Sequence 31869, A
40	98.5	9.6	456	4	US-09-252-991A-19417	Sequence 19417, A
41	98.5	9.2	587	4	US-09-252-991A-22704	Sequence 22704, A
42	97.5	9.1	196	4	US-09-252-991A-23046	Sequence 23046, A
43	97.5	9.1	335	4	US-09-252-991A-24899	Sequence 24899, A
44	97.5	9.1	575	4	US-09-252-991A-20649	Sequence 20649, A
45	97.5	9.1	684	4	US-09-252-991A-27004	Sequence 27004, A

#### ALIGNMENTS

#### RESULT 1

US-09-046-479-2  
Sequence 2, Application US/09046479  
Patent No. 6291653  
GENERAL INFORMATION:  
APPLICANT: Sheppard, Paul O.  
APPLICANT: Deisher, Theresa A.  
TITLE OF INVENTION: MOTILIN HOMOLOGS  
NUMBER OF SEQUENCES: 7  
CORRESPONDENCE ADDRESS:  
ADDRESSER: ZymoGenetics, Inc.  
STREET: 1201 Eastlake Avenue East  
CITY: Seattle  
STATE: WA  
COUNTRY: USA  
ZIP: 98102  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: DOS  
SOFTWARE: FastSeq for Windows Version 2.0  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/046,479  
FILING DATE:  
CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER:  
FILING DATE:  
ATTORNEY/AGENT INFORMATION:  
NAME: Sawislak, Deborah A  
REGISTRATION NUMBER: 37,438  
REFERENCE/DOCKET NUMBER: 97-04  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 206-442-6672  
TELEFAX: 206-442-6678  
TELEX:

; INFORMATION FOR SEQ ID NO: 2:  
 ; SEQUENCE CHARACTERISTICS:  
 ; LENGTH: 117 amino acids  
 ; TYPE: amino acid  
 ; STRANDEDNESS: single  
 ; TOPOLOGY: linear  
 ; MOLECULE TYPE: protein  
 ; FRAGMENT TYPE: internal  
 ; US-09-046-479-2

Alignment Scores:  
 Pred. No.: 1,578-25 Length: 117  
 Score: 326.00 Matches: 74  
 Percent Similarity: 53.19% Conservative: 1  
 Best Local Similarity: 52.48% Mismatches: 0  
 Query Match: 31.65% Indels: 66  
 DB: Gaps: 1

US-10-659-782A-11 (1-579) x US-09-046-479-2 (1-117)

QY 112 ATGCCCTCCCCAGGACCGCTCTGAGCCTCTGCTCTGCGCATGCTCTGGCTGGACTTG 171  
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 Db 1 MetProSerProGlyThrValCysSerLeuLeuLeuGlyMetLeuTrpLeuAspLeu 20  
 QY 172 GCATGGCAGGCTCCAGCTTCTGAGCCCTGAACACACAGAGAGTCCAGGTGAGACCTCCC 231  
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 Db 21 AlaMetAlaGlySerPheLeuSerProGluHisGlnArgValGln--Gln----- 37  
 |||||  
 QY 232 CACAAAGCCCCACATGTTGTTCCAGCCCTGCCACTTAGCAACACGACTCTGTGACCTGGAG 291  
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 Db 37 ----- 37  
 QY 292 CAGCAGCGCCATCTCTGGGCTTCAGTCTTCTCCAGAGACACAAAGGACTCTGGGTCTGAC 351  
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 Db 37 ----- 37  
 QY 352 CTCACGTGTTCTGGNAGGACATGGGGCTTAGAGTCTTAACAGACTGTTTCCCCCTTCC 411  
 |||||  
 Db 37 ----- 37  
 QY 412 AGCAGAGAAAGAGTTCGAAGAAGCCACAGCAAGCTGCAGCCCGAGCTCTAGCAGGCT 471  
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 Db 38 -----ArgLysGluSerLysProProAlaLysLeuGlnProArgAlaLeuAlaGlyT 56  
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 QY 472 GCCTCCGCCGAGATGAGGTCAAGCAGAAAGGGCAGAGGATGAATCTGAAAGTCCGG 530  
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 Db 56 rpLeuArgProGluAspGlyGlyGlnAlaGluGlyAlaGluAspGluLeuGluValArg 75

# RESULT 2

; US-08-822-897C-2  
 ; Sequence 2, Application US/08822897C  
 ; Patent No. 6380158  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Sheppard, Paul O.  
 ; APPLICANT: Deisher, Theresa A.  
 ; TITLE OF INVENTION: MOTILIN HOMOLOGS  
 ; NUMBER OF SEQUENCES: 7  
 ; CORRESPONDENCE ADDRESS:  
 ; ADDRESS: ZymoGenetics, Inc.  
 ; STREET: 1201 Eastlake Avenue East  
 ; CITY: Seattle  
 ; STATE: WA  
 ; COUNTRY: USA  
 ; ZIP: 98102  
 ; COMPUTER READABLE FORM:  
 ; MEDIUM TYPE: Diskette  
 ; COMPUTER: IBM Compatible  
 ; OPERATING SYSTEM: DOS  
 ; SOFTWARE: FastSeq for Windows Version 2.0  
 ; CURRENT APPLICATION DATA:  
 ; APPLICATION NUMBER: US/08/822,897C  
 ; FILING DATE:  
 ; CLASSIFICATION: 536

; PRIOR APPLICATION DATA:  
 ; APPLICATION NUMBER:  
 ; FILING DATE:  
 ; ATTORNEY/AGENT INFORMATION:  
 ; NAME: Sawislak, Deborah A  
 ; REGISTRATION NUMBER: 37,438  
 ; REFERENCE/DOCKET NUMBER: 97-04  
 ; TELECOMMUNICATION INFORMATION:  
 ; TELEPHONE: 206-442-6672  
 ; TELEFAX: 206-442-6678  
 ; TELEX:

; INFORMATION FOR SEQ ID NO: 2:  
 ; SEQUENCE CHARACTERISTICS:  
 ; LENGTH: 117 amino acids  
 ; TYPE: amino acid  
 ; STRANDEDNESS: single  
 ; TOPOLOGY: linear  
 ; MOLECULE TYPE: protein  
 ; FRAGMENT TYPE: internal  
 ; US-08-822-897C-2

Alignment Scores:  
 Pred. No.: 1,578-25 Length: 117  
 Score: 326.00 Matches: 74  
 Percent Similarity: 53.19% Conservative: 1  
 Best Local Similarity: 52.48% Mismatches: 0  
 Query Match: 31.65% Indels: 66  
 DB: Gaps: 1

US-10-659-782A-11 (1-579) x US-08-822-897C-2 (1-117)

QY 112 ATGCCCTCCCCAGGACCGCTCTGAGCCTCTGCTCTGCGCATGCTCTGGCTGGACTTG 171  
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 Db 1 MetProSerProGlyThrValCysSerLeuLeuLeuGlyMetLeuTrpLeuAspLeu 20  
 QY 172 GCATGGCAGGCTCCAGCTTCTGAGCCCTGAACACACAGAGAGTCCAGGTGAGACCTCCC 231  
 |||||  
 Db 21 AlaMetAlaGlySerPheLeuSerProGluHisGlnArgValGln--Gln----- 37  
 |||||  
 QY 232 CACAAAGCCCCACATGTTGTTCCAGCCCTGCCACTTAGCAACACGACTCTGTGACCTGGAG 291  
 |||||  
 Db 37 ----- 37  
 QY 292 CAGCAGCGCCATCTCTGGGCTTCAGTCTTCTCCAGAGACACAAAGGACTCTGGGTCTGAC 351  
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 Db 37 ----- 37  
 QY 352 CTCACGTGTTCTGGNAGGACATGGGGCTTAGAGTCTTAACAGACTGTTTCCCCCTTCC 411  
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 Db 37 ----- 37  
 QY 412 AGCAGAGAAAGAGTTCGAAGAAGCCACAGCAAGCTGCAGCCCGAGCTCTAGCAGGCT 471  
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 Db 38 -----ArgLysGluSerLysProProAlaLysLeuGlnProArgAlaLeuAlaGlyT 56  
 |||||  
 QY 472 GCCTCCGCCGAGATGAGGTCAAGCAGAAAGGGCAGAGGATGAATCTGAAAGTCCGG 530  
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 Db 56 rpLeuArgProGluAspGlyGlyGlnAlaGluGlyAlaGluAspGluLeuGluValArg 75

# RESULT 3

; US-09-608-810A-4  
 ; Sequence 4, Application US/09608810A  
 ; Patent No. 6420521  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Sheppard, Paul O.  
 ; APPLICANT: Jaspers, Stephen R.  
 ; APPLICANT: Deisher, Theresa A.  
 ; APPLICANT: Bishop, Paul D.  
 ; TITLE OF INVENTION: SGIP PEPTIDES  
 ; FILE REFERENCE: 99-51  
 ; CURRENT APPLICATION NUMBER: US/09/608,810A  
 ; FILING DATE: 2000-06-30  
 ; PRIOR APPLICATION NUMBER: 60/141,592

Alignment Scores:		
Pred. No.:	1.57e-25	Length: 117
Score:	326.00	Matches: 74

Percent Similarity: 53.19% Conservative: 1  
 Best Local Similarity: 52.48% Mismatches: 0  
 Query Match: 31.65% Indels: 66  
 DB: 4 Gaps: 1

US-10-659-782A-11 (1-579) x US-10-140-002-442 (1-117)

QY 112 ATGCGCTCCCGAGGACCGCTGCGAGCTCTCTGCTCTCGGCAGCTCTGCTGCGACTTG 171  
 DB 1 MetProSerProGlyThrValCysSerLeuLeuLeuLeuGlyMetLeuTrpLeuAspLeu 20  
 QY 172 GCATGGCAGGCTCAGCTTCTGAGCCCTGAACACAGAGAGTCCAGGTGAGACCTCCC 231  
 DB 21 AlaMetAlaGlySerSerPheLeuSerProGluHisGlnArgValGln--Gln----- 37  
 QY 232 CACAAAGCCACATGTTTCCAGCCCTGACCTAGCAACCACTGCTGTGACCTGGAG 291  
 DB 37 ----- 37  
 QY 292 CAGCAGCCCATCTCTGGGCTTCACTTCTTCCAGAGCACAAGGACTCTGGGTCTGAC 351  
 DB 37 ----- 37  
 QY 352 CTCACCTGTTTCTGGAAGACATGGGGCTTAGAGTCTTAACAGACTGTTTCCCCCTTCC 411  
 DB 37 ----- 37  
 QY 412 AGCAGAAAGAGTGAAGAGCACCAGCAAGCTGCGAGCCCGAGCTCTAGCAGGCT 471  
 DB 38 -----ArgGluSerIysProProAlaIysLeuGlnProArgAlaLeuAlaGlyT 56  
 QY 472 GCCTCCGCGGAGATGGAGTCAAGCAGAGGGGAGGAGGATGAACCTGGAATCCGG 530  
 DB 56 TrpLeuArgProGluAspGlyGlyGlnAlaGluGlyAlaGluAspGluLeuValArg 75

## RESULT 6

US-09-252-991A-26538  
 ; Sequence 26538, Application US/09252991A  
 ; Patent No. 6551795  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Marc J. Rubenfield et al.  
 ; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS  
 ; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS  
 ; FILE REFERENCE: 107196.136  
 ; CURRENT APPLICATION NUMBER: US/09/252,991A  
 ; CURRENT FILING DATE: 1999-02-18  
 ; PRIOR APPLICATION NUMBER: US 60/074,788  
 ; PRIOR FILING DATE: 1998-02-18  
 ; PRIOR APPLICATION NUMBER: US 60/094,190  
 ; PRIOR FILING DATE: 1998-07-27  
 ; NUMBER OF SEQ ID NOS: 33142  
 ; SEQ ID NO 26538  
 ; LENGTH: 181  
 ; TYPE: PRT  
 ; ORGANISM: Pseudomonas aeruginosa

US-09-252-991A-26538

Alignment Scores:  
 Pred. No.: 0.000927 Length: 181  
 Score: 117.00 Matches: 43  
 Percent Similarity: 34.62% Conservative: 11  
 Best Local Similarity: 27.56% Mismatches: 30  
 Query Match: 10.97% Indels: 72  
 DB: 4 Gaps: 8

US-10-659-782A-11 (1-579) x US-09-252-991A-26538 (1-181)

QY 349 CAGACCCAGAGTCTTGTCTGCGGAGAGACTAGCCCGAGAGATGCGCTGTGCT 290  
 DB 47 ArgThrHisPro-----ThrGlyArgArgSerProArgAsp---ProProAla 63  
 QY 289 CCAGGTCAAGAGTGTGTTGTAAGTGGCAGGCTGGAACAACATGTGGGCTTTTGGG 230  
 DB 11 Indels: 72  
 Gaps: 8

DB 64 ProGlySerArgAlaGlySer----- 70  
 QY 229 GAGGTCTACCTGGACTCTCTGTTTTCAGGGTCAAG-----AGC 188  
 DB 71 -----AlaProAlaGlySerGlyCysArgGlySerGlyArgSerProHisArgAlaAla 88  
 QY 187 TGG-----AGCTGCGCATGCGCCCAAGTCCA 164  
 DB 89 TrpLeuArgGlyProAlaSerValHisAspHisGlySerAlaAlaProGlyProAlaPro 108  
 QY 163 GCAGAGCATGCCAGAGAGCAGAGGCTGCAGAGCTCCCTGGGGAGG----- 116  
 DB 109 AlaArgArgPheProAlaThrGlyGlyCysArgArgGlyGlyArgProGlyGlyCys 128  
 QY 115 -----GCATGG----- 110  
 DB 129 ProLeuHisArgTyrProAlaArgTrpAlaThrAlaGluLeuProAlaTrpArgProLeu 148  
 QY 109 ---CCTCAGCTGGTTGCAGACAGGTGGGCTCAGTCTCGGAGTGGTGCCTGTGCT 53  
 DB 149 ProProAlaArgGlyTrpArgThrArgHisArgArgProTrpProThrGly----- 165  
 QY 52 GTCAGTCTTATATAGAGACGCGCTTGTCTAAACAGCACCCATCCA 5  
 DB 166 -----ValArgSerAlaHisPro 171

## RESULT 7

US-09-252-991A-30696  
 ; Sequence 30696, Application US/09252991A  
 ; Patent No. 6551795  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Marc J. Rubenfield et al.  
 ; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS  
 ; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS  
 ; FILE REFERENCE: 107196.136  
 ; CURRENT APPLICATION NUMBER: US/09/252,991A  
 ; CURRENT FILING DATE: 1999-02-18  
 ; PRIOR APPLICATION NUMBER: US 60/074,788  
 ; PRIOR FILING DATE: 1998-02-18  
 ; PRIOR APPLICATION NUMBER: US 60/094,190  
 ; PRIOR FILING DATE: 1998-07-27  
 ; NUMBER OF SEQ ID NOS: 33142  
 ; SEQ ID NO 30696  
 ; LENGTH: 159  
 ; TYPE: PRT  
 ; ORGANISM: Pseudomonas aeruginosa

US-09-252-991A-30696

Alignment Scores:  
 Pred. No.: 0.00417 Length: 159  
 Score: 110.50 Matches: 53  
 Percent Similarity: 39.31% Conservative: 15  
 Best Local Similarity: 30.64% Mismatches: 51  
 Query Match: 10.36% Indels: 54  
 DB: 4 Gaps: 11

US-10-659-782A-11 (1-579) x US-09-252-991A-30696 (1-159)

QY 520 AGTTTCATCTCTGCGCCCTTCTGCTTGCATCTTCCGGGGGAGCAGCCTGTAGTA 461  
 DB 7 AlaThrSerArgSerProArgAlaArgProSerThr---ArgCysSerProAla--Se 25  
 QY 460 GCTCGGGCTGCAGCTTGGCTGCTTCTTCG-----ACTCCTTT 419  
 DB 25 rValSerSerAlaAlaAspArgThrSerSerGlyGlnSerProSerThrCysSerProCys 45  
 QY 418 CTCTCTGGAAGGGGAAACAGTCTGTTTAGACTCTTAAGCCCCCATGTCTCTTCCAGAA 359  
 DB 45 sSerSerAla-----AlaProProCys----- 53  
 QY 358 CAGTGAGTCAAGCCAGAGTCTTCTGCTGCGGAGAGACTGAAGCCAGAGATGGC 299  
 DB 54 -SerArgCysSerProArgThrSerCysSerProGlyProGlyAlaSer-----Al 70

QY 298 GCTGCTCCAGTCCAGACAGCTGTTCTAAGTGGCAGGCTGGAACAACATGTGGG 239  
 Db 70 a-CysCysAlaArgLeuGlnArgTrp-----AlaProTrpArgCysArgS 85  
 QY 238 CTTTGTGGGAGGTCTCACTGCACTCTCTGTTTTCAGGCTCAGGAAGCTGGAAGCCTG 179  
 Db 85 erGlyTrp-ArgThrSer-----AlaSerAsnAlaThrSerGlyGlySerCysSerS 102  
 QY 178 CCAATG-----CCAGTCCAGCAGAGAGATGCGGAGGAGCAGAGGC 137  
 Db 103 ProTrpAlaSerSerAlaTrpGlnProSerProSer---AlaCysArgAsnArgSerGly 121  
 QY 136 TGCAGACGG-----TCCCTGGGAGGCGATGCGCTCAGCTGGGTTGCAGA 92  
 Db 122 CysProSerAlaCysTrpTrpTrpSerAlaProArgThrTrp----- 135  
 QY 91 CAGGTGGGCTCAGTCCCTGGCGAGTGTGTC 59  
 Db 136 -----SerAlaTrpSerSerAlaAla 142

## RESULT 8

US-09-616-289-47  
 ; Sequence 47, Application US/09616289  
 ; Patent No. 6632923  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Lees, Ann M.  
 ; APPLICANT: Lees, Robert S.  
 ; APPLICANT: Law, Simon W.  
 ; APPLICANT: Arjona, Anibal A.  
 ; TITLE OF INVENTION: NOVEL LOW DENSITY LIPOPROTEIN BINDING  
 ; TITLE OF INVENTION: PROTEINS AND THEIR USE IN DIAGNOSING AND TREATING  
 ; TITLE OF INVENTION: ATHEROSCLEROSIS  
 ; FILE REFERENCE: 10797-004001  
 ; CURRENT APPLICATION NUMBER: US/09/616,289  
 ; CURRENT FILING DATE: 2000-07-14  
 ; PRIOR APPLICATION NUMBER: US 09/517,849  
 ; PRIOR FILING DATE: 2000-03-02  
 ; PRIOR APPLICATION NUMBER: US 08/979,608  
 ; PRIOR FILING DATE: 1997-11-26  
 ; PRIOR APPLICATION NUMBER: US 06/031,930  
 ; PRIOR FILING DATE: 1996-11-27  
 ; PRIOR APPLICATION NUMBER: US 06/048,547  
 ; PRIOR FILING DATE: 1997-06-03  
 ; NUMBER OF SEQ ID NOS: 53  
 ; SOFTWARE: FastSeq for Windows Version 4.0  
 ; SEQ ID NO 47  
 ; LENGTH: 550  
 ; TYPE: PRT  
 ; ORGANISM: Oryctolagus cuniculus  
 US-09-616-289-47

Alignment Scores:  
 Pred. No.: 0.00677 Length: 550  
 Score: 110.50 Matches: 56  
 Percent Similarity: 37.38% Conservative: 24  
 Best Local Similarity: 26.17% Mismatches: 59  
 Query Match: 10.73% Indels: 75  
 DB: 4 Gaps: 10

US-10-659-782A-11 (1-579) x US-09-616-289-47 (1-550)

QY 29 GCCGTCTCTAT-----ATPAGACTTGACAGCAGGACCACTCGCCA 73  
 Db 91 SerIleSerTyArgAsnAlaAlaArgValGlnProProArgGlyAlaThrProPro 110  
 QY 74 -----GGACTGAGGCCCTCTCTGCAACCCAGCTGAGGCCA 112  
 Db 111 AlaProProArgAlaProArgGlyGlyProAlaAlaAlaAlaProProThrPro 130  
 QY 113 TGCCTCCCGAGGACCGTCTGAGCTCTCTGCTCGGCGATGCTCTGGCTGGACTGG 172  
 Db 131 AlaProProProProAlaProValAlaAlaAlaAlaAla----- 144

QY 173 CCATGGCAGGCTCCA-----GCTTCTGAGCCCTGAACACAGAGAGTCC 217  
 Db 145 ProAlaArgAlaProArgAlaAlaAlaAlaAlaAlaThr-AlaProProSerPr 164  
 QY 218 AGGTGAGACCTCCCA-----CAAAAGCCCCACATGTTGTTCCAGCCC 259  
 Db 164 oGlyProAlaGlnProGlyProArgAlaGlnArgAlaAlaProLeuAlaAlaProPr 184  
 QY 260 TGCCTACTAGCACACAGCTCTGTGACCTGGAGCAGCAGGCCATCTCTGGGC----- 311  
 Db 184 cAla-----ProAlaAla-----ProProAlaAlaAlaProProAlaGlyProArgAr 200  
 QY 312 -----TTCAGTCTTCTCCAGCAGACACAAAGG 337  
 Db 200 gAlaProProProAlaAlaAlaAlaAlaAlaArgGluSerProLeuPro----- 216  
 QY 338 ACTCTGGGTCTGACCTCCTACTGTTTCTGGAAGGACATGGGGCTTAGAGTCTTAAACAGAC 397  
 Db 217 -----ProProProGlnPr 221  
 QY 398 TGTTCCTCCCTTCCAGCAGAGAAAGAGTCTGGAAGAGCCACAGCCAAAGCTCAGCCCG 457  
 Db 221 oProAlaProProGlnGlnGlnProProProProProProProGlnGlnProGl 241  
 QY 458 A-----GCTCTAGCAGGCTGCTCCGCCGGAAGATGGAGGTCA 496  
 Db 241 nProProProGluGlyGlyAlaAlaAlaAlaGly-GlyProAlaArgProValSerLeuA 261  
 QY 497 AGCAGAAGGGCAGAGAGTGAAGTGGAGTCCGGGTGCG 534  
 Db 261 rgLuValValArgTyrluGlyGlySerSerGlyAla 273

## RESULT 9

US-08-483-533-41  
 ; Sequence 41, Application US/08483533  
 ; Patent No. 6172047  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Roizman, Bernard  
 ; APPLICANT: Chou, Joany  
 ; TITLE OF INVENTION: Method for Treating Tumorigenic  
 ; TITLE OF INVENTION: Diseases  
 ; NUMBER OF SEQUENCES: 43  
 ; CORRESPONDENCE ADDRESS:  
 ; ADDRESSEE: Marshall, O'Toole, Gerstein, Murray & Borun  
 ; STREET: 6300 Sears Tower, 233 South Wacker Drive  
 ; CITY: Chicago  
 ; STATE: Illinois  
 ; COUNTRY: United States of America  
 ; ZIP: 60606-6402  
 ; COMPUTER READABLE FORM:  
 ; MEDIUM TYPE: Floppy disk  
 ; COMPUTER: IBM PC compatible  
 ; OPERATING SYSTEM: PC-DOS/MS-DOS  
 ; SOFTWARE: PatentIn Release #1.0, Version #1.25  
 ; CURRENT APPLICATION DATA:  
 ; APPLICATION NUMBER: US/08/483,533  
 ; FILING DATE: 07-MAR-95  
 ; CLASSIFICATION: 514  
 ; PRIOR APPLICATION DATA:  
 ; APPLICATION NUMBER: 08/419,853  
 ; FILING DATE: 11-APR-95  
 ; PRIOR APPLICATION DATA:  
 ; APPLICATION NUMBER: 07/861,233  
 ; FILING DATE: 31-MAR-92  
 ; ATTORNEY/AGENT INFORMATION:  
 ; NAME: Zeller, James P.  
 ; REGISTRATION NUMBER: 28,491  
 ; REFERENCE/DOCKET NUMBER: 28097/32742  
 ; TELECOMMUNICATION INFORMATION:  
 ; TELEPHONE: 312/474-6300  
 ; TELEFAX: 312/474-0448  
 ; TELEX: 25-3856

; INFORMATION FOR SEO ID NO: 41:

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; INFORMATION FOR SEQUENCE NO.
;
; SEQUENCE CHARACTERISTICS:
;     LENGTH: 355 amino acids
;     TYPE: amino acid
;     STRANDEDNESS: single
;     TOPOLOGY: linear
;     MOLECULE TYPE: protein
; US-08-483-533-41

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; LENGTH: 355 amino acids

TYPE: amino acid

STRANDEDNESS: single

; STRANDEDNESS: 811  
; TOPOLOGY: Linear

; TOPOLOGY: linear

; MOLECULE TYPE

Alignment Scores:

Pred. No.:	0.00725	Length:	355
Fragment Scores:	Score:	Matches:	66
	109.50	Conservative:	15
	Percent Similarity:	Mismatches:	73
	Best Local Similarity:	Indels:	86
	Query Match:	Gaps:	13
	DB:		3

Score:	109.50	Matches:	66
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Percent Similarity: 33.75%


Best Local Similarity: 27.50%

Best Local Similarity:	27.50%	Mismatches:	73
Query Match:	10.63%	Indels:	96

Query match: 10.63%

US-10-659-782A-11 (1-579) X US-08-483-533-41 (1-355)

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Db	113	ArgGlyAlaGlyLeuThrProProThrProProArgAlaProSerAlaPheArgAla	132	
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Db	152	galaGlyArgGlyArgSerProProArgProProArgProProArgPro-----ProAr	171	
Qy	227	CTCCCCACAAAGCCCCACATGTTGTCGAGCCCTGCCACT-----	266	
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Db 133 SerProSerAlaCysAlaSerProArgSerThrTrpArgAlaCysAlaCysAsp-AlaAr 152

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Db 191 pSerGlyProArgProProAlaTTrpArgAlaAlaAlaArgGlyProAlaSerGly----- 209

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## RESULT 10

RESULTS TO  
IIS-09-293-4718-41

US-09-283-4/1A-41

; Sequence 41, Appli

; Patent No. 6340673

; GENERAL INFORMATION:



```
; LENGTH: 174
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-19399

Alignment Scores:
Pred. No.: 0.00785 Length: 174
Score: 108.00 Matches: 48
Percent Similarity: 34.86% Conservative: 13
Best Local Similarity: 27.43% Mismatches: 66
Query Match: 10.12% Indels: 48
DB: 4 Gaps: 9

US-10-659-782A-11 (1-579) x US-09-252-991A-19399 (1-174)
QY 577 CCACCTCTCGTGCACAGACGATATAAACTGCAGAGTACCGACCGGACTTCCAGT 518
Db 11 ProProSer-----A-G-A-G-SerGlyProAlaProValPro---ArgAlaProGly 26
QY 517 TCATCCTCTGCCCTCTGCTGACCTCCATCTTCCGGCGGAGCCAGCGCTGTAGAGT 458
Db 27 SerAlaGlySerProArgAla---SerProGlyGlyCysArgIleProProArgArg 45
QY 457 CGGGGCTGCAGCTGGCTGGCTTCTTCGACTCTTCTCTGCTGGAAGGGGAAACA 398
Db 46 ArgGlySerSer-----SerPro 51
QY 397 GTCTGTTTAGGACTCTAAGCCCATGCTCTTCCAGAAACAGTGAGTCCAGCCAGAGT 338
Db 52 ValArgProGlyArgProGlyHisLeuArgArgAlaArgArgAlaProArgPro 71
QY 337 CTTTGTGCTCTGGGAGAAGACGTAAGCCAGAGATGGCGCTGCTGCTCCAGGTACAGA 278
Db 72 SerArgCysSerGlySerGlySerArgProArgSerGlyArgSerAlaProGlySerArg 91
QY 277 GCTGTTCTAAGTGGCAGGCTGGACACATGTGGGGCTTTGTGGG---GAGGTCTCA 221
Db 92 -----ArgThrProArgCysAlaProProProSer 101
QY 220 CTTGGACTCTCTGTTGAGGCTCAGGAAGCTGG-----AGCTGCTCCATGGCCAAGT 167
Db 102 Pro-----GlyArgArgArgThrArgSerThrThrProGlyProGly 115
QY 166 CCAGCCAGATGCCGAGGAGCAGGAGGCTGCAGCGTCCCTG-----122
Db 116 SerArgArgLeuThrAlaGlyArgProGlyCysArgArgAspTrpProValArgThrGly 135
QY 121 -----GGGAGGCGATGGCTCAGCTGGTTGCAGA 92
Db 136 LysArgArgArgProGlyArgSerHisProProValGlyCysArg 150

RESULT 13
US-09-252-991A-24452
; Sequence 24452, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; PRIOR FILING DATE: 1999-02-18
; PRIOR FILING DATE: 1998-02-18
; PRIOR FILING DATE: 1998-02-18
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 24452
; LENGTH: 428
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-24452

Alignment Scores:
Pred. No.: 0.0157 Length: 164
Score: 105.00 Matches: 51
Percent Similarity: 32.99% Conservative: 14
Best Local Similarity: 25.89% Mismatches: 68
```

```
Alignment Scores:
Pred. No.: 0.0126 Length: 428
Score: 107.50 Matches: 49
Percent Similarity: 36.42% Conservative: 14
Best Local Similarity: 28.32% Mismatches: 70
Query Match: 10.44% Indels: 40
DB: 4 Gaps: 8

US-10-659-782A-11 (1-579) x US-09-252-991A-24452 (1-428)
QY 44 AGACCTGACAGCACAGGACACCACTCCGCCAGAGCTGCAGGCCACCTGTCTGCAACCCAG 103
Db 175 ArgAlaArgArgProGlyThrTyraAlaProGly-----ArgProGlnArg 189
QY 104 CTGAGCCCATGCCCTCCCGAGGACCGTCTGAGCCCTCTGAGCCCTCTGCTCTCGGCATGCTTGGC 163
Db 190 LeuArgProLeuProSerAlaGlyProSerArgArg-----201
QY 164 TGGACTTGGCCATGCGAGGCTCCAGCTTCCAGCCCTGAGCCCTGACACACAGAGAGTCCAGGTGA 223
Db 202 TrpArgLeu-HisGlyArgLeuLeuLeuProGlnGlnCysArgHisArgHisProGlyVa 221
QY 224 GACCTCCCA-----CAAGCCCCCATATGTTTCCAGCCCTGCACTTA 268
Db 221 lProArgProGlyCysProAlaArgGlyAspProArgCysArgLeuSerProTrpGlnAr 241
QY 269 GCAACACAGCTCTGTGACCTGGAGCAGCGCCATCTCTGGGCTTCAAGTCTTCTCCAGCA 328
Db 241 gHisPro-----GlyTyxLeuLeuProProAr 250
QY 329 GCACAAAGACTCTGGGTCTGACCTGACCTGTTCTGGAAGGACATGGGGCTTAGAGTCC 388
Db 250 gArgCysAlaValArgLeuAspPro-----TrpArgSerAlaGly 263
QY 389 TAAACAGACTGTTTCCCTTCCAGCAGAGAAAGAGTGAAGAACCCAGCCCAAGCT 448
Db 264 -ArgIleProValLeuProArgLeuArgArgAlaArgArgArgArgArgGlyLe 283
QY 449 GCAGCCCGAGCTGTAGCAGGC---TGGCTCCGC-----CCGGAAGATGGAGTCAAGC 499
Db 283 uGlnProGlnLeuSerAlaGlyProTrpGlnArgLeuGlyProLeuValGlyGlyAlaAr 303
QY 500 AGAAGGGGAGGAGTGAAGTGAAGTCCGGGTCGT 536
Db 303 gArgArgLeuArgAlaAspArgArgLeuArgProGly 315

RESULT 14
US-09-252-991A-20615
; Sequence 20615, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; PRIOR FILING DATE: 1999-02-18
; PRIOR FILING DATE: 1998-02-18
; PRIOR FILING DATE: 1998-02-18
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 20615
; LENGTH: 164
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-20615

Alignment Scores:
Pred. No.: 0.0157 Length: 164
Score: 105.00 Matches: 51
Percent Similarity: 32.99% Conservative: 14
Best Local Similarity: 25.89% Mismatches: 68
```



DB:	4	Gaps:	10
US-10-659-782A-11 (1-579) x US-09-252-991A-17910 (1-409)			
Qy	117	CTCCCCAGGACCGCTCTGCAGCCTCCTGCTCTCTCGGCATGCTCTGCTGGACTTGCCCAT	176
	:::		:::
Db	194	IleSerArgSerHisCysSerSerProProArgThrSerArgSerGlyMetGly---	212
	:::		:::
Qy	177	GGCAGGCTCCAGCTTCTGTAGCCCTGAACACACAGAGATCCAGGTGAGACTCCCCACAA	236
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Db	213	-----ArgSerGlnGlyThrGlnArgGlySer	221
	:::		
Qy	237	AGCCCCACATGTTGTTCCAGCCCTGCCACTTAGCAAC-----CAGCTGTGACCTGGA	290
Db	222	SerProAlaSerCysSerIleArgAlaArg-SerSerGlyCysArgAlaCysSerAlaSe	241
Qy	291	GCAGCAGCGCCATCTC-----	306
	:::		
Db	241	rArgProArgArgArgSerSerMetAspAsnArgProThrArgThrArgGluIleth	261
Qy	307	-----TGGGCT---TCAGTCTTCTCCAGACACAAAGGACTCTGGGTC	347
Db	261	rPheSerAlaGluAsnTrpSerLeuSerGlnTyroGlnArgSerThrAlaAspSerGlyAr	281
Qy	348	TGACCTCACT-----GTTTCTGGAGGACATGGGGGCTTAGAGTCTCTAAACAG	395
Db	281	gArgIleSerAlaIleIleArgLeuLeuGlyArgSerValProValArgSerAlaGlyAr	301
Qy	396	ACTGTTTCCCTC-----TCCAGCAGAGAAAGGAGTCCGAAGNAGCCACCAGCCAAAG	446
Db	301	gArgPheAlaProGluArgSerGlySerArgAspArgGlyArgArg-CysValAlaAspA	321
Qy	447	CT-----GCAGCCCCAGCTCTAGCAGGCTGGCTCCG-----	478
Db	321	laProThrAlaArgCysGlySerAlaProAlaArgSerArgProSerProTrpArgGlyA	341
Qy	479	-----CCCGGA-----	484
Db	341	rgAspGlyGlySerArgArgAlaGlyArgLeuAlaGlyArgArgTrpTrpProGlys	361
Qy	485	-----AGATCGAGGTCAAGCAGAAAGGGCGACAGATGAACCT--	520
Db	361	erGlyProAlaProArgArgLeuArgTrpArgTrpArgArgProGlyArgGlyTrpSera	381
Qy	521	-----GGAAGTCCGGTCCG	535
Db	381	laSerAspAlaargHisArgArgAlaGlySerProGlyArg	394

```

; PATENT NO. 8551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS

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Alignment Scores:	
Pred. No.:	0.0225
Score:	105.00
Percent Similarity:	34.88%
Best Local Similarity:	25.12%
Query Match:	10.19%
Length:	54
Matches:	21
Conservative:	52
Mismatches:	88
Indels:	

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